

# MUHAMMAD ABDULLAH

## Senior Backend Engineer

✉ muhammedabdullah340@gmail.com    📞 +92 340 4445351    📍 Lahore, Pakistan

🌐 [linkedin.com/in/muhammad-abdullah-92ab90201](https://www.linkedin.com/in/muhammad-abdullah-92ab90201)    🏠 [github.com/AbdullahAtGitHub](https://github.com/AbdullahAtGitHub)

### Professional Summary

---

Backend Engineer with 4+ years of experience building high-availability financial and enterprise platforms using Java (Spring Boot), Python (FastAPI), and Go. Experienced designing scalable APIs, distributed systems, microservices, and database-intensive applications using Redis, Kafka, and relational/NoSQL storage. Delivered platforms supporting millions of users, reduced critical API latency by 98%, modernized large-scale production systems, and optimized data pipelines by over 95%. Strong background in system design, performance engineering, distributed data infrastructure, AWS, PostgreSQL, and production operations.

### Technical Skills

---

**Languages:** Java, Python, Go, TypeScript

**Frameworks:** Spring Boot, FastAPI, Gin, React, Next.js

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, Snowflake

**Cloud & DevOps:** AWS (EC2, Lambda, RDS, S3), GCP, Docker, GitHub Actions, CI/CD, Terraform

**Auth & Security:** OAuth 2.0, JWT, RBAC, Microsoft SSO

**Observability & Operations:** AWS CloudWatch, Sumo Logic, Apache Airflow, Cron, Jaeger, Prometheus, Grafana

**Messaging & Integration:** RabbitMQ, Apache Kafka, gRPC / Protocol Buffers

**Architecture & Systems:** Distributed Systems, System Design, Event-Driven Architecture, Workflow Orchestration, API Design, Scalability, Fault Tolerance, Distributed Caching

### Professional Experience

---

**Backend Software Engineer, ExperLabs**

03/2023 – Present

- Backend Developer for US-based enterprise FBBrands Inc.
- Designed and developed an enterprise sourcing and costing platform processing vendor quotations from 20+ countries, defining workflows, integrations, compliance rules, and approval pipelines; projected annual savings exceeding \$650K.
- Modernized a multi-brand e-commerce middleware platform (Spring Boot 3.2 / Java 17), introducing multi-tenancy, API versioning, Redis-based distributed caching, and scalable architecture patterns to support high-concurrency traffic.
- Led platform migration across major Spring Boot and Java versions while maintaining production stability and business continuity.
- Led performance optimization of a critical pricing service, reducing API response times by 98% (4+ minutes to ~5 seconds) through query-plan analysis, indexing strategies, Redis caching, and backend redesign.
- Optimized ETL and reporting workloads, reducing processing time from 5–10 hours to approximately 20 minutes while cutting memory consumption by 50%.
- Owned backend services built with FastAPI and PostgreSQL, designing APIs, authorization models, role-based access control, Microsoft SSO integration, and automated synchronization processes.

- Managed production deployments on AWS through GitHub Actions CI/CD pipelines and Docker-based environments.
- Built logistics integration services connecting DHL, FedEx, and PBI APIs to provide real-time shipment visibility across supply-chain operations.

**Associate Software Engineer, i2c Inc.**

02/2022 – 03/2023

- Backend Engineer supporting a global card transaction platform serving millions of users with strict uptime, consistency, and latency requirements.
- Contributed to mission-critical financial transaction services requiring sub-100ms response times and high operational reliability across a distributed, high-throughput environment.
- Improved throughput and reduced latency through SQL optimization, indexing strategies, schema refactoring, and database performance tuning.
- Enhanced software quality by developing 200+ automated JUnit tests and refactoring legacy Java services, reducing regression defects by 40%.
- Collaborated with cross-functional engineering teams to troubleshoot production issues and support reliable releases.

## Projects

---

**Distributed Microservices Platform, In Development**

Developing a production-style ride sharing backend in Go using microservices, gRPC, RabbitMQ, Stripe, and Google Cloud, deployed with Terraform, Kubernetes, and Docker. Implementing core backend services for ride lifecycle management, asynchronous workflows, payment processing, distributed tracing with Jaeger, and local development workflows with Tilt.dev.

**Todo Application**

Built a full-stack application using Go (Gin), PostgreSQL, Docker, and Svelte demonstrating clean architecture, RESTful API design, database migrations, and containerized deployment.

## Education

---

**Bachelor of Science in Computer Science,**

*National University of Computer & Emerging Sciences (FAST-NUCES)*

2018 – 2022

Lahore

## Additional Information

---

- English (IELTS C1 Professional Working Proficiency), Urdu (Native).
- Experienced collaborating with US-based stakeholders across multiple time zones.
- Open to relocation and international remote opportunities.